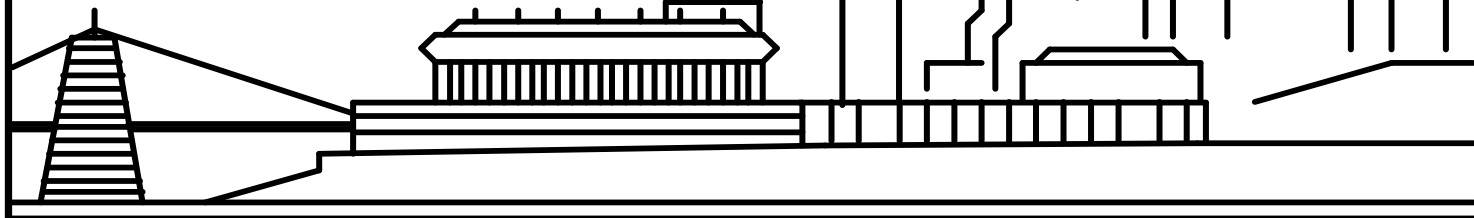




INSTITUTE OF
ELECTRICAL &
ELECTRONICS
ENGINEERS, INC.



MAY 1997

IEEE CINCINNATI SECTION NEWSLETTER

MAY MEETING:

PRESENTATION AND TOUR ON COMPUTED RADIOLOGY (CR) AND
PICTURE ARCHIVE COMMUNICATIONS SYSTEMS (PACS)

DATE : THURSDAY, MAY 29, 1997

PLACE : University of Cincinnati Hospital

TIME : Meet in the Main Lobby at 7:00 pm

HOSTED/PRESENTED BY:	Steve Yelton	Program Chairman; Cincinnati State Technical and Community College
	Bob Keltch	Director of Clinical Engineering
	Jack Malott	Director of Radiology
	Steve Dietrich	Associate Director of Radiology University of Cincinnati Hospital

There will be a 45-55 minute presentation on CR and PACS. There will then be a tour of one of the wards to see the system in use. We will show how doctors can view x-rays via the computer. We will then close the session with a question and answer period.

DIRECTIONS AND PARKING:

You will have to pay for parking. Park in the Goodman Street Garage.

If you are coming from I-75: Exit at Hopple Street, turn left at light, go across Central Parkway and up the hill. You should proceed up the hill past Good Samaritan Hospital and the University of Cincinnati. You will then come to University Hospital on the left. Turn left on Highland Avenue; Goodman garage is off Highland.

If you are coming from I-71 south, exit at Wm. Howard Taft, go to 3rd light (Highland Ave.) and turn right, follow until you see the hospital; Goodman garage is off Highland.

From I-71 north, exit at Reading Road, follow Reading Road to Martin Luther King Dr. Turn left and follow until you see the hospital on the right. Proceed to Highland Avenue and turn right; Goodman garage is off Highland.

CHAIR'S MESSAGE

by Randy Holt, Section Chair

Wow! Another terrific presentation, this time for our April meeting! We're really on a roll, technically speaking. Mr. Les Moore, Manager of the Digital Camera Advanced Development Laboratory at Eastman Kodak Company in Rochester, NY, was out guest on April 24. He delivered a real tutorial on the technology contained in the Kodak digital cameras and demonstrated some aspects of the vision "art" in a very interesting way. Not only did we get a great talk, but Mr. Moore also brought with him three digital cameras that were raffled off. I guess the presentation would have been even more "rewarding" for me if I had been one of the recipients of those cameras! Altogether, we had close to fifty members and friends in attendance, and the free pizza dinner (compliments of your Cincinnati Section!!!) was delicious; I observed that many of the attendees are REAL pizza eaters! If you were unable to attend, I hope you will come to our next meeting, a presentation at University Hospital on imaging and data storage. Thanks to Steve Yelton, fellow member at Cincinnati State, for setting up the meeting.

As an EE, it's sometimes pretty scary to try to keep up with the exponentially-growing knowledge in our field. This is the primary reason we have technical meetings and why many of us find the IEEE Spectrum and other IEEE publications to be an essential part of our reading material each month. I'm also recipient of a wealth of technical knowledge at each of our meetings from my conversations with other IEEE members. You know, we are really fortunate to have so many talented people in our group. The wisdom that is found in our members is truly awesome, and so many of them are willing to share it with the rest of us. Please consider coming to our next meeting and getting to know some of us better.

Your Executive Committee is constantly working on ways to make your membership in IEEE Cincinnati Section more worthwhile. We are negotiating with Internet Service Providers (ISPs) to give preferred monthly rates to our members, we are actively developing a Web page that will be moved from Jim Everly's directory to a commercial ISP and will contain a wealth of information for you, and we are looking for ways to provide you with other benefits as a result of being an IEEE member. And, of course, we are working to provide interesting topics for you at our monthly meetings. Electrical/electronics engineering (and engineering technology) is such a wide discipline that it's very hard to find topics that interest everyone. We do our best to spread things out each year so that the major interests are satisfied. But we do need your input as well. Please contact me or anyone else on the Executive Committee if you have suggestions on how we can better serve you, and we'll do our best to provide it. Also remember, however, that our meetings and other benefits won't always satisfy your tastes because of our wide interest areas; please try to participate at other technical meetings even if the topic isn't your favorite. You may find out something indirectly that applies to your interests, or you may discover that a new area opens new opportunities to you and your career. You might also meet some new people who you will find to be new friends with lives and interests that you can enjoy.

I hope to see you soon!!!

A MESSAGE FROM YOUR PACE CHAIRMAN

by Bill Lohner, PACE Chairman

" A Network of Professional Activities for Engineers "

Continuing to work on ways to encourage students in our high schools to take more technical and scientific subjects I read an interesting article in the " Cincinnati Enquirer " a few days ago. The article gave the results of 12th grade proficiency tests obtained from the Ohio Department of Education.

The numbers indicated the percentage of students that passed the tests. The numbers given below averages of twenty two school districts in Hamilton County.

<u>SUBJECT</u>	<u>PERCENTAGE</u>
Writing	81.3
Reading	84.5
Mathematics	67.6
Science	64.9
Citizenship	80.2

In the areas of mathematics and science the percentage of students passing the tests is lower than writing, reading and citizenship. It is gratifying that the percentage of students passing reading, writing and citizenship is high, but I feel the percentage of students passing science and mathematics should be higher than they are.

Only three school districts in Hamilton county had over 80 percent of the students passing the math tests only four school districts had over 80 percent of the students passing the science tests.

As I mentioned in last month's article we are trying to find 6 to 8 people to form a group to promote scientific and technical studies in our high schools. I received one response and the individual agreed to help in this area. I need at least a few more, if nothing more than to get together and discuss this problem.

IEEE Membership Development is sponsoring a training session in Columbus next month to encourage membership development in the IEEE. I plan to attend the training session and perhaps be able to get some input on new member development as well as how to encourage good students to enter the technical and scientific fields. Again, I welcome any suggestions or volunteers from members of the Cincinnati Section.

Bill Lohner
 PACE Chairman
 Cincinnati Section, IEEE
 (513) - 385-7268

Robert M. Metcalfe: IEEE 1996 Medal Of Honor Award
by R. J. Reiman, Historian

Robert M. Metcalfe has received the 1996 IEEE Medal of Honor award because of his invention of the most widely used system for linking up computers in local-area networks (LANs). The Medal of Honor award gave equal weight to his invention of the Ethernet technology, his promotion of Ethernet standards, and his commercialization of Ethernet-compatible products. He has the capacity to be praised by his former professional associates "as a brilliant individual" and "a very special guy". His friend Howard Chaney recalls "his ability to gather together concepts that seemingly have nothing to do with each other and to detect a hidden a hidden pattern or trend".

Metcalfe earned a degree in Electrical Engineering at MIT. While studying for a Ph D at Harvard, he spent time for the Multiple Access Computing Project and through it met Internet founders Robert E. Kahn and Vinton G. Cerf, and began his abiding interest in networks. An important net-related project Metcalfe experienced was the attempt to build an interface between Bolt, Beranek, and Newman (BBN) Interface Message Process (Imps) and Digital Equipment Corp's PDP-10 computer. His thesis topic on packet communications at Harvard grew out of his work at MIT. To earn his Ph D, he would have to expand on the theory.

In 1972, Metcalfe went to work for the Xerox Palo Alto Research Center {PARK} under Robert Taylor on a mission to design the office of the future. The team at PARK succeeded gloriously by inventing many user-friendly devices which would later earn Apple Computer, Sun Microsystems and Microsoft such huge rewards,

and achieved with distributed computing, local networking, and interoffice mail all still applicable. Metcalfe took a leave from Xerox to join a study of a radio packet communications network called Alohanet at the University of Hawaii, and under Norman Abramson and Franklin Kuo. While reading a treatise of Alohanet, he began to hatch a technique for linking computers together locally: messages would be broadcast on coaxial cable - which he eventually call the "ether" - after the medium once postulated as the carrier of electromagnetic radiation. Each intended destination would pick up the data packets carrying its address. If packets collided, their non arrival would be detected by transmitters, which would back off, and after some random interval, try again until the packets went through. Metcalfe enlisted David Boggs back at Xerox to build Alto-Ethernet interfaces, and with assistance of Tat C. Lam, made the first Ethernet transceivers which was patented in 1975. In using the system developed, he added its theory to his thesis, and received a PH D from Harvard.

Differences from Alohnet include no central controller, a carrier to avoid most collisions, has collision detection, and runs at millions of bits per second rather than thousands.

From contacts on consulting agreements, Metcalfe sold his Ethernet ideas to Digital Equipment and Intel Corp. A factor was the clarity of the Metcalfe-Boggs article on "Communications of the Association of Computing Machinery" of July 1976. Metcalfe then founded 3Com to build Ethernet interfaces, and the first on the market in 1980 was an interface that sold for \$ 5000.00, and in 1996 is down to about \$ 19.00 each. In 1982, 3Com devised the EtherLink Card which could be plugged into IBM's first PCs.

Metcalfe and Digital's C. Gordon Bell began a struggle against giant IBM over IEEE standards Committee 802, over local area networks. Eventually, three standards were issued, one for Ethernet, one for IBMs "Token Ring System", and one for General Motors Token Bus system. Ethernet is now leading the market with 50 million computers using it as a link.

Metcalfe's first marriage was dissolved in 1975 in part to his hectic life away from home. He currently has taken up writing , away from business, and his marriage to Robyn Shotwell includes two children and both a townhouse in Boston and a farm in Maine.

1997 MATHCOUNTS SUMMARY

Cincinnati Country Day takes 1st in State competition

Susie Lewis, coach of CCD, led her team to first place in the Ohio State MATHCOUNTS competition on Saturday, March 1, 1997. Team members were Mindy Hsu, Charles Kuwin, Robbie Sivard and Phillip Hall. At this year's finals in Columbus, 43 teams plus 68 individuals competed for top prizes in the MATHCOUNTS competition and a chance to go to the nationals in Washington, DC. As coach of the first place team, Ms. Lewis will have the honor of coaching the top four individual winners that will represent Ohio at the National Competition May 9 in Washington, DC.

All Saints School takes 6th

The All Saints School coached by Tom Fairbanks brought home trophies for a sixth place finish at the State competition. Team members were Abhijit Mehta, Jim Alverson, Mike Lund and Paul Toogood.

All five Cincinnati area teams placed in the top 20. This is the strongest showing for any chapter in the state. Rounding out the area teams were:

White Oak Middle School	11th
Seven Hills Middle School	16th

Top Individuals

Only the top 4 students in the State will get to go on to the national MATHCOUNTS competition in May. Cincinnati are Mathletes that finished in the top 20 were:

<u>Student</u>	<u>Place</u>	<u>School</u>
Charles Kulwin	5th	Cincinnati Country Day
Elizabeth Darbie	10th	White Oak Middle School
Mindy Hau	12th	Cincinnati Country Day
Brad Coppel	14th	Sycamore Junior High School
Abhijit Mehta	19th	All Saints School
Mike Arszman	20th	White Oak Middle School

Brad Coppel takes 4th in the "Count Down Round"

Brad Coppel, from Sycamore Junior High School, took home a 4th place trophy in the Count Down Round. In this round, the top 16 students in the state competed one-on-one in a fast paced dual. The winner of each pairing advanced through to the final round.

Background

MATHCOUNTS is a nation-wide mathematics competition designed to encourage and recognize proficiency in math for seventh and eight grade students. It is a competition patterned after sporting events that involve both individual and team work in solving problems.

MATHCOUNTS is co-sponsored by the National Society of Professional Engineers and is one of the country's largest and most successful partnerships of business and education. The instructional materials were prepared by the National Council of Teachers of Mathematics and are provided free each year to the team coaches. For more information, please contact Mr. John Molander PE, MATHCOUNTS Chairman, 627-7445 (W) or 791-6529 (H).

IEEE NEWS

IEEE SPONSORS ONE-DAY ELECTRIC UTILITY SYMPOSIUM

The electric power industry is one of the nation's last regulated monopolies. This, however, may soon change as the federal government and state governments across the United States proceed along the path to a restructured electric power industry.

IEEE-USA wants to ensure that efforts to restructure the electric power industry are consistent with sound engineering and economic principles. To further its educational effort on this issue, IEEE-USA is sponsoring a one-day symposium entitled, "What Should be the Role of the Federal Government in Restructuring the Electric Power Industry: A Technology Policy Perspective" to discuss the many difficult technical and related regulatory issues inherent in restructuring.

Please join us as we discuss and debate this timely topic at the annual IEEE-USA Technology Policy Council Symposium scheduled for June 11, 1997 at the Hyatt Regency Washington at 400 New Jersey Avenue, NW in Washington, D.C. The hotel is located on Capitol Hill and is convenient to Amtrak and Metro at Union Station and is only a short drive from National Airport.

Leaders from industry, government and academia will address a series of topics through individual presentations and panel discussions. The agenda attempts to present a number of issues that will spur debate and disseminate important information and insights. Included are the issues relating to the technical challenges of restructuring, the similarities and differences between restructuring the electric power industry and that of other industries, the R&D and manpower needs relating to restructuring, how environmental protection will be ensured in a restructured industry and the areas of power systems planning where public oversight and control is needed.

The cost to register for the Symposium is \$145 for IEEE members and \$175 for non-members. You are encouraged to register as soon as possible to ensure a space. Please contact Paul Johnson at IEEE-USA at 202-785-0017 ext. 320 or at p.johnson@ieee.org if you have any questions.

IEEE-USA CANDIDATES ANNOUNCED

On Feb. 12, in executive session, the IEEE United States Activities Board approved the candidates to be placed on the ballot for the Institute's general election later this fall. The candidates are as follows:

For 1998 IEEE-USA President: George F. McClure, John R. Reinert

For 1998 IEEE-USA President-Elect: Paul J. Kostek, Charles S. Lessard

For 1998 IEEE-USA Member-at-Large: Jerry C. Aukland, T. J. Tarn

For 1998-99 IEEE-USA Member-at-Large: Frank E. Lord, Robert Noberini

Elected leaders will take office on January 1, 1998.

LOUISIANA STUDENTS DESIGN CITY OF THE FUTURE IN NATIONAL COMPETITION

The city bans smoking, disposes of solid waste by sending it into outer space, and its citizens live in self-sustaining domed communities. This is the city of the future as envisioned by three students who won the National Engineers Week Future City Competition on February 19.

Their design also calls for solar-powered cars, extensive use of neighborhood watches to reduce crime, strict limits on welfare benefits, and casinos that raise revenues for the city. The trio from Lake Charles -- brothers Brett and Brandon Goodwin and Brandon Harris, eighth- and seventh-graders from Bishop Noland Episcopal Day School -- along with teacher Gail Hecox and volunteer engineer mentor David B. White, a structural engineer, won a trip to Disney World. The Louisiana competition was hosted by the five IEEE Sections with members in that state.

More than 375 schools nationwide participated in the competition, which asks students to create -- first on computer and then in three-dimensional models -- their ideal city of the future. The students must consider politics, transportation, budgeting, energy needs and other issues in their city planning.

Hamburg Junior High in Hamburg, New York, won second place and Our Lady Help of Christians Schools in Abington, Penn., took third-place honors.

AAES PUBLIC-POLICY NEWSLETTER NOW AVAILABLE BY E-MAIL

IEEE members can now receive the American Association of Engineering Societies' FACTSFAX newsletter directly by e-mail by subscribing to the aaes@majordomo.ieee.org e-mail list. AAES FACTSFAX provides the

latest engineering-related news from Capitol Hill, including highlights of the government-relations activities of IEEE-USA and other AAES member societies. The list will also be used to distribute special announcements and notices of important AAES activities.

AAES is a multidisciplinary organization dedicated to advancing the knowledge, understanding and practice of engineering in the public interest. Its members represent the mainstream on U.S. engineering - affecting over 800,000 engineers in industry, government and education. The Institute is a founding member of AAES.

For instructions on how to use AAES FACTSFAX and other IEEE-USA majordomo mailing lists, send an e-mail message to majordomo@majordomo.ieee.org with no subject line and the text message "help."

LIFELONG EMPLOYABILITY

UNDERSTANDING THE PROBLEMS AND LOOKING FOR SOLUTIONS

The typical unemployed IEEE member in this country over 50, has more than two decades of professional experience, holds a graduate degree and has been without work for more than a year. These were some of the results of a 1995 survey conducted by IEEE-USA's Employment Assistance Committee. In that year, there were more than 3000 unemployed members. But by 1996, more than half had been re-employed. Where and how did they find success? The data from two follow-on surveys helps us to understand.

The first survey, the Unemployment Survey, addressed the same questions to the 1996 list of unemployed and confirmed many of our previous results. The second survey, a Re-Employment Survey, was sent to the more than 2000 members who indicated they were unemployed in 1995 but not in 1996. The analysis of this data provided insight into how the previously unemployed member conducted his successful job search and helped us understand how we might better address the problems of the remaining unemployed.

FIRST, THE TYPICAL RESPONDENT: AN OLDER, MORE EXPERIENCED ENGINEER

The average respondent to all three surveys was similar in age and experience. The table below summarizes the basic data. In comparison, the average US member in the 1995 Salary Survey was 48 years old and the average member in the 1994 Member Opinion Survey (worldwide) was between 30 and 49.

	1995	1996 Unemployed	1996 Re-employed
a. Age - mean	51 yr	52 yr	52 yr
b. Years of Experience - mean	24 yr	26 yr	27 yr
c. Hold Graduate Degree	57%	59%	57%
d. Duration of Unemployment	84 wk(50)	92 wk(52-78)	59 wk
e. Have Internet Access	43%	60%	64%
f. Industry of previous employment:			
Aerospace & defense	35%	26%	
Communication	7.5%	11%	
Utilities	7%	11%	

IS AGE A BARRIER TO RE-EMPLOYMENT?

When asked what they perceived to be personal barriers to re-employment, respondents overwhelmingly replied: age. Further analysis of 1996 unemployed survey data showed they might be right - those selecting "age" were on the average 55 years old and unemployed for 99 weeks, versus 44 years and 71 weeks for those not selecting age.

A regression analysis confirmed the adverse affect of age - growing older by one year adds about two weeks more to the duration of unemployment than an additional year of experience reduces it. This result is stable across the 1995 and 1996 surveys.

HOW DID THOUSANDS US MEMBERS FIND A NEW JOB?

What happened to the more than 2200 members who said they were unemployed in 1995, but were not on the list in 1996? Did they all find jobs (we hope) or did they cease being IEEE members? And, if they all found jobs, how did they do it? Our Re-employment survey attempted to answer these questions.

Ninety-six percent of the more than 800 respondents were still members, paying full dues. As noted previously, these members were similar in age and experience to the unemployed members.

But, how do they differ? One thing that jumps out is the increase in consulting and small company employment. Consultants (self-employed) in this survey represent 11% of the respondents - in the 1995 Salary Survey they were 3% and in the 1996 Member Opinion Survey (worldwide) they were 4%.

And, how did they find these jobs? Networking - members of both the UNemployment and Re-employment surveys rated "networking" as the most successful job search technique.

WHERE DO WE GO FROM HERE?

Networking is an obvious area the EAC can address to help members maintain lifelong employability. The Committee has created, in conjunction with the Consultants' Network, a Networking Workshop for Sections and Chapters to help build skills. Information on this workshop is available on the Web under IEEE-USA's employment services listings: www.ieee.org/jobs.

Another area under study addresses the specific problems of the over-50 engineer. What are the problems and how can we help to ensure lifelong employability? Look to our surfer survey this month and let us know what you think (www.ieee.org/PERSPECTIVES).

For more details on the surveys, refer to the article in the Web edition of "Frontlines" at www.ieee.org/jobs.

DUST OFF THOSE BUSINESS CARDS - NETWORKING WORKSHOP HELPS IEEE MEMBERS PLUG-IN

The experts have been telling us for years, and our survey results have verified: Networking is the most successful job search technique available. Beyond just job searching, networking skills are essential to career longevity and success.

In conjunction with the Consultants' Network, we have developed a "Networking Workshop" for use by Sections and Chapters. It's ready-to-go, easy to understand and doesn't require any special facilitator training.

Beginning with an overview of the importance of networking, the workshop leads participants through the steps of defining, developing, expanding, using and maintaining a network. Three stimulating exercises help hone networking skills and reinforce the concepts explored in the presentation. The most difficult part of the workshop is getting participants to stop!

The workshop is complete in one package with instructions to facilitators, presentation notes, background information on networking and the exercises. A copy is available on the Web at www.ieee.org/jobs or contact Bill Anderson, w.anderson@ieee.org, 202-785-0017, x330.

FROM EMPLOYMENT ASSISTANCE TO CAREER ASSISTANCE:

IMPROVED SERVICES FOR JOB SEEKERS, JOB KEEPERS

EAC plans to help the job seekers by continuing the Job Listing Service in 1997. The Employment Services Page continues to be the most popular Web page every month since our Internet site launch in September 1994. Plans for 1997 include the addition of a search capability to the Web version of JLS to improve its functionality. The success of the existing JLS is reflected in comments such as the following:

"We have just filled the job by a candidate who had read about the opening on your listing. Your listings are by far the most professionally handled and useful employment tool we know of, either on or off the Internet."

To further assist the job seekers, the Committee will publish a new engineering employment guide, the "Engineer's Guide to Lifelong Employability," which will provide the tools and techniques to help engineering and computer professionals deal with the turbulence of the 1990-2000 job market. It provides fresh insights into the art of searching and securing technical professional employment. The guide should be published by the spring of 1997.

To help the "job keepers," the EAC plans to develop tools and services to enhance job longevity. The EAC and the Career Maintenance and Development Committee (CMDC) will work together in 1997 to develop tools and services that will help our members extend their employability.

It will also conduct research on issues such as why some professionals are retained and others are released and what can the IEEE do to help our members increase their value to an employer, for the possible development of other tools and services.

ELECTRO-TECHNOLOGY INDUSTRY DATABASE GOES NATIONAL

If you are a member of IEEE within the US, you can get a list of companies that employ technical professionals. Region 3 has made their ETI database available to all IEEE members within Regions 1 through 6. The database now contains information on more than 40,000 companies in all 50 states. The company name, address, phone number, description of business or products, total employees and the revenue for last fiscal year is provided for each company listed. All you need to do is send an Internet e-mail message to: eti-info@eng.uab.edu. An auto-response file will be returned that provides instructions on how to register and use the system. An on-line interface has recently been developed for registration and search functions. This available on the World Wide Web at: <http://sandbox.ieee.org/r03/eti/eti.html>.

IS YOUR BOSS "IN-THE-KNOW?"

Do you wish your boss(es) understood more about the IEEE? We all do! Well, it may help to know that you can do something about it! IEEE UPDATE is a bi-monthly newsletter mailed to technology executives and managers around the world. Through news of IEEE activities, new products, and accomplishments of members, the newsletter helps demonstrate how companies can benefit when their employees participate in the IEEE. The newsletter targets higher level executives, mid-level managers, and any others who need to understand the benefits of IEEE membership if they are to support engineers' IEEE activities. If you know someone that should be receiving a copy of this newsletter, please email the intended recipient's address to corporate-communications@ieee.org, or contact Corporate Communications directly. IEEE UPDATE can also be accessed via the IEEE web site (<http://www.ieee.org>) in a text-only version under "What's News".

DID YOU KNOW THAT.....

In 1996, the IEEE published nearly 28,000 articles (including journal articles, conference papers, and standards) on electrical engineering topics, and more than 20,000 articles on computers, control theory, and control technology. Together, the IEEE and the IEE published more than 33% of the world's literature in these areas.

NEW MEMBERS

The following individuals are new IEEE members who are in our Section:

ANN M. CHESLEY
DAVID J. CLANCY
ROYDEN J. FORSYTHE
KHURSHEED S. HUSSAIN
RICHARD O. LEIDLEIN
TIMOTHY J. O'CONNELL

MARK D. RUZICKA
EDMUND SALATA
MICHAEL C. SPOHN
TIM W. VEERKAMP
J. E. VIGNALE

The following individuals are existing IEEE members who have moved into the Cincinnati Section:

PETER J. ASHENDEN
JOHN BUERGER
CHRISTOPHER S. CALDWELL
GARY Y. FAN
KHURSHEED S. HUSSAIN

JOHN W. KINCAID JR
A. J. KUNKLE
KIM W. MITCHELL
ROBERT H. TEDFORD

We wish to extend our welcome to all of our Section's new members!!!

**PLENTY OF
PRIZES**

**MEET FELLOW
MEMBERS**

ENTERTAINMENT

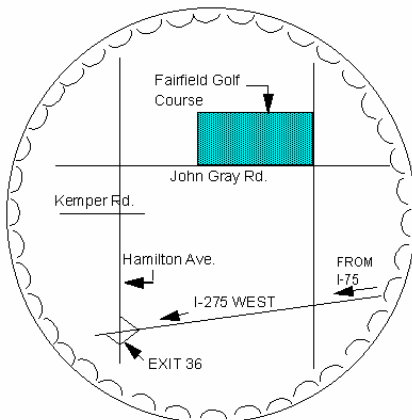
CASH BAR!!

CINCINNATI IEEE SOCIAL EVENT

FRIDAY, JUNE 6, 1997

**AT THE FAIRFIELD GOLF COURSE
(FORMERLY PLEASANT RUN)**

**2200 JOHN GRAY ROAD
FAIRFIELD, OHIO**



- * **SIT DOWN DINNER-
CHARCOAL GRILLED NEW
YORK STRIP STEAK**
 - * **BAKED POTATO,
VEGETABLE & SALAD**
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BEER & SOFT DRINKS &
SNACKS**
- COST: \$20 (MEMBERS)
\$35 (NON-MEMBERS)
(CHECKS PAYABLE TO IEEE, CINTI
SECTION)**
- GOLF COST IS EXTRA!!!**

- * **MAKE GOLF RESERVATIONS WHEN YOU MAKE DINNER RESERVATIONS!!**
- * **TEE TIMES ARE FIRST COME FIRST SERVED**
- * **PROVIDE NAMES OF THOSE IN YOUR GROUP- WE WILL COMPLETE FOURSOMES WHEN NECESSARY**
- * **GREENS FEES (INCLUDING SHARED CART): \$34.00**
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- * **TEE OFF FROM 11AM TO 1:30 PM**
- * **REFRESHMENTS AT 6 PM**
- * **DINNER AT 7 PM**
- * **ENTERTAINMENT/DOOR PRIZES AT 8 PM**

FOR GOLF/DINNER RESERVATIONS CALL MIKE KLODFELDER AT 513-287-1721 OR MAIL TO:

**M. D. CLODFELDER
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CINCINNATI, OHIO 45201**

YOU MUST GIVE YOUR NAME AND IEEE MEMBER NUMBER WHEN MAKING RESERVATIONS

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Bob Haas - Vice Chairman
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MAY 1997

IEEE CINCINNATI SECTION NEWSLETTER



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P.O. Box 53308**

Cincinnati, Ohio 45253

DATED MATERIAL
Please deliver promptly
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